

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A method for introducing nucleic acid into cells of a region of the human or animal body, which method comprises substantially occluding an efferent vessel from said body region and introducing said nucleic into that body region under pressure via said efferent vessel, further comprising generating ultrasonic vibrations in the region of nucleic acid delivery from an ultrasonic oscillator.
2. (Withdrawn) Apparatus for introducing nucleic acid into cells of a region of the body comprising: a reservoir for holding a liquid formulation which comprises said nucleic acid; a catheter tube in fluid communication with said reservoir for conveying said liquid formulation to said body region via an efferent vessel of said body region; pressure development means for pressurising the liquid conveyed by the catheter; and occlusion means for substantially occluding said efferent vessel.
3. (Previously Presented) A method of claim 1 wherein said region of the body is an organ of the body.
4. (Previously Presented) A method of claim 3 wherein the organ is selected from the list comprising kidney, heart, spleen, pancreas, lung, adrenal glands, stomach, prostate gland and ovary.
5. (Previously Presented) A method of claim 4 wherein the organ is the liver.
6. (Previously Presented) A method of claim 1 wherein the nucleic acid is introduced at a pressure of, or the pressure development means are adapted to generate a pressure of, 10-80 mmHg.

7. (Previously Presented) A method of claim 1 wherein the nucleic acid is in the form of a plasmid.
8. (Previously Presented) A method of claim 1 wherein occlusion is achieved by or the occluding means comprises one or more balloons.
9. (Previously Presented) A method of claim 1 wherein the nucleic acid is introduced into said region of the body in less than 60 seconds.
10. (Previously Presented) A method of claim 1 wherein the liquid formulation comprising said nucleic acid has a total volume of 50-1300 ml.
11. (Previously Presented) A method of claim 10 wherein the liquid formulation comprising said nucleic acid has a total volume of 75-350 ml.
12. (Withdrawn) Apparatus of claim 2 wherein said reservoir comprises one or more syringe tubes.
13. (Withdrawn) Apparatus of claim 2 wherein said pressure development means comprises one or more syringes.
14. (Withdrawn) Apparatus of claim 2 wherein said catheter comprises one or more radial injection ports.
15. (Withdrawn) Apparatus of claim 2 wherein said catheter comprises 2 lumen.
16. (Withdrawn) Apparatus of claim 15 wherein one lumen is adapted to receive a guide wire.

17. (Withdrawn) Apparatus of claim 15 wherein one lumen is adapted to allow inflation of the occlusion means.
18. (Withdrawn) Apparatus of claim 16 wherein the liquid formation passes down the guide wire lumen.
19. (Withdrawn) Apparatus of claim 15 wherein the catheter comprises two lumen which are adapted to allow inflation of the occlusion means.
20. (Canceled)
21. (New) The method of claim 1, wherein the ultrasonic oscillator comprises a piezo-electric transducer.